FORM 3160-3	
(December 1990)	١

SUBMIT IN TRIPLICATE (Other instructions on

Form approved. Budget Bureau No. 1004-0136

reverse	side)

UNITED STATES

רווזר	JAN	0	14	O٠	117
/##3	Jan	-7	AM	7	4 :

Expires December 31, 1991

5.	LEASE DESIGNATION AND SERIAL NO.	
	SF- 078764	

		TMENT OF THE AU OF LAND MAN	77443	JAN -9 AM 9: 43	SF- 078764	О.
APPLI	CATION FOI	R PERMIT TO DE	RILL, DEEPEN, TO	RELUGIEACKNM	6. IF INDIAN, ALLOTTEE OR TRIBE NAM	Œ
1a. TYPE OF WORK	DRILL	X DEEPEN			7. UNIT AGREEMENT NAME	
1b. TYPE OF WELL	•		_		Rosa Unit	
	<u> </u>				8. FARM OR LEASE NAME, WELL NO.	
OIL WELL	GAS WELL	X OTHER	SINGLE X	MULTIPLE ZONE	231A	
2. NAME OF OPERA	Williams Pro	duction Company, I	LLC		9. API WELL NO. 039 =	27287
3. ADDRESS OF OPE					10. FIELD AND POOL OR WILDCAT	,
			ngton, NM 87402 (S	505) 327-4892	Basin Fruitland C	oal
4. LOCATION OF At Surface	WELL (Report location 1765' FSL and	n clearly and in accordance with $d~1020^{\prime}FEL$	any State requirements.*)	\$ 14 15 16 17 79	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	
At proposed Prod.	Zone			APP on	I Sec. 31,T31N, R5	W
14. DISTANCE IN MI		From nearest town or pos $of\ Blanco,\ NM$	[m]	ं व्या	12. COUNTY OR PARISH Rio Arriba	13. STATE NM
	f PROPOSED* LOCATION FT. (Also to nearest drig. 1020'	ON TO NEAREST PROPERTY mit line, if any)	16. NO. OF ACRES IN LEASE	E	NO. OF ACRES ASSIGNED TO THIS WELL 232.99 S/2	
		N* TO NEAREST WELL, FOR ON THIS LEASE, FT.	19. PROPOSED DEPTH	>	ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Sh	ow whether DF, RT, GR, $6508'~GR$	etc.)		The second secon	22. APPROX. DATE WORK WILL START April 15, 2003	
23.		PROPOSED CAS	ING AND CEMENTING	PROGRAM		
SIZE	OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEM	
	12-1/4"	9-5/8"	36.0#	+/- 300'	~211 cu.ft. Type III with 2	
	8-3/4"	7"	20.0#	+/- 3163'	~740 cu.ft.65/35 poz & ~2	09 cu.ft.Type II
	6-1/4"	5-1/2"	<i>15.5</i> #	+/- 3063' - 3308'	Open hole completion - no	cement

Williams Production Company proposes to drill a vertical well to develop the Fruitland Coal formation at the above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will not require any new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by an existing road that crosses the NW/SE, NE/SW, NW/SW of section 31, 31N, R5W and NE/SE of section 36, 31N 6W, where it joins the main "Rosa Road". Note: This well will be drilled on the same pad as the existing Rosa Unit #137A...

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone.

If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.							
SIGNED C	TITLE John C. Thompso	on, Ageni date	1/8/2003				
(This space for Federal or State office use)	· "I						
PERMIT NO.	APPROVAL DATE						
Application approval does not warrant or certify that the applicant holds		entitle the applicant to conduct opers	ations thereon.				
CONDITIONS OF APPROVED BY	CZ TITLE	DATE	APR 1 4 2003				
The state of the s	*See Instructions On Reverse Side						

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE THE

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

District I PO 30x 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504~2088

API Number

'State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

Pool Code

Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

Pool Name

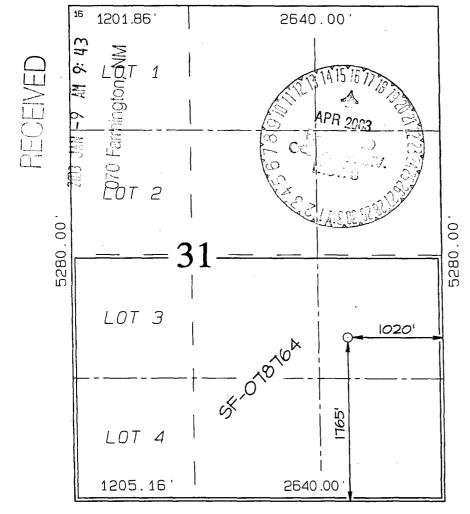
State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-05	1-2	1681		71629 Basin Fruitland Coal									
Property 1703		°Property Name ROSA UNIT											
'OGRID N	ì			*Operator Name *Elevation WILLIAMS PRODUCTION COMPANY 6508									
	¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	line	County			
I	3,1	31N	5W		1765	SOUTH	1020			RIO ARRIBA			
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	t line	County			
12 Dedicated Acres		99 Acre	s - (S	6/2)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
to the best of my knowledge and belief
ATT
Side Cillians
Signature
John C. Thompson
Printed Name
Agent
Title
11/18/02
Date
SURVEYOR CERTIFICATION
I hereby certify that the well location
shown on this plat was plotted from field notes of actual surveys made by me or under
my supervision, and that the same is true and correct to the best of my belief.
Survey Date: OCTOBER 23, 2002
Signature and Seal of Professional Surveyor
C. EDW
STAN MEXICOS
2,50
[-[(1-000)]
HOTESSIAN B
TOFESSION
To
UASON C. EDWARDS
Certificate Number 15269

C. <u>BOP TESTING:</u> While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The surface and intermediate casing strings will be pressure tested to 1500 psi in conjunction with the BOP test before drilling out cement. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3163'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 3063-3308'	5-1/2"	15.5# K-55

B. FLOAT EQUIPMENT:

- 1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.
- 2. <u>INTERMEDIATE CASING:</u> 7" cement nose guide shoe with a self-fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1585' to the surface. Total centralizers = 5 regular and 14 turbulent.
- 3. PRODUCTION LINER: 5-1/2"liner with notched collar on bottom.

C. <u>CEMENTING:</u>

(Note: Volumes may be adjusted onsite due to actual conditions)

- 1. SURFACE: Use 160 sx (211 cu.ft.) of "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.41 cu.ft./sk, Weight = 14.5 #/gal.). Use 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
- INTERMEDIATE: Lead 355 sx (740 cu.ft.) of "Type III" 65/35 poz with 8% gel, 1% CaCl2 and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail 150 sx (209cu.ft.) of "Type III" with 1/4# cello-flake/sk, and 1% CaCl2 (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use 100% excess in lead and tail to circulate to surface. Total volume = 950 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated. Test to 1500#.
- 3. PRODUCTION LINER: Open hole completion. No cement.

IV COMPLETION

A. PRESSURE TEST

Pressure test 7" casing to 3300# for 15 minutes.

B. STIMULATION

Cavitate Well with reciprocation and rotation. Surge wells with water and air and then flow back to pit. Cavitate for 2 to 3 weeks. Maximum pressure not expected to exceed 2,000 psi.

C. RUNNING TUBING

1. <u>Fruitland Coal:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.375" ID) on top of bottom joint. Land tubing approximately 50' above TD.

John C. Thompson Engineer

file:231ARosaOP

Williams Production Company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

